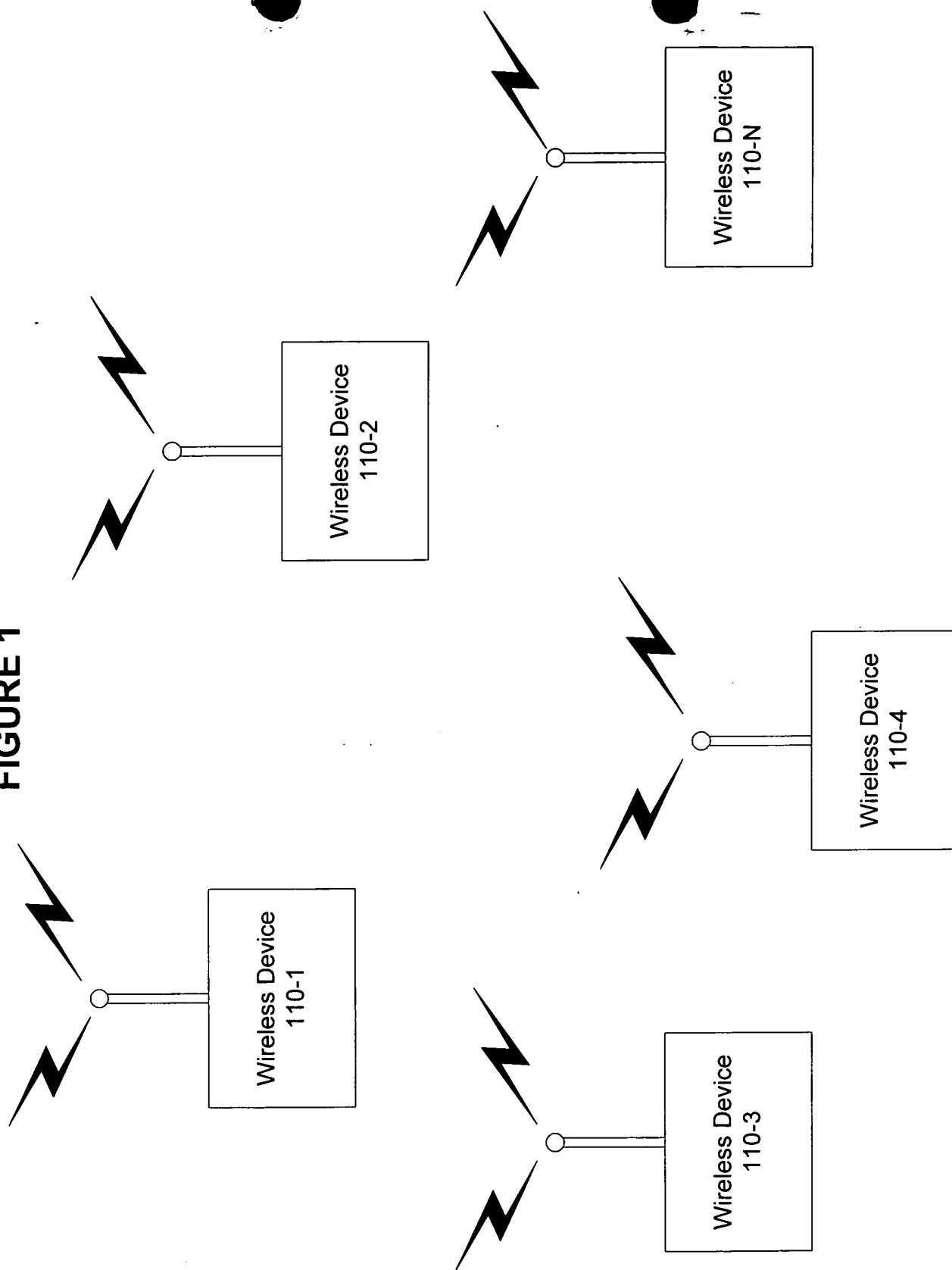


FIGURE 1



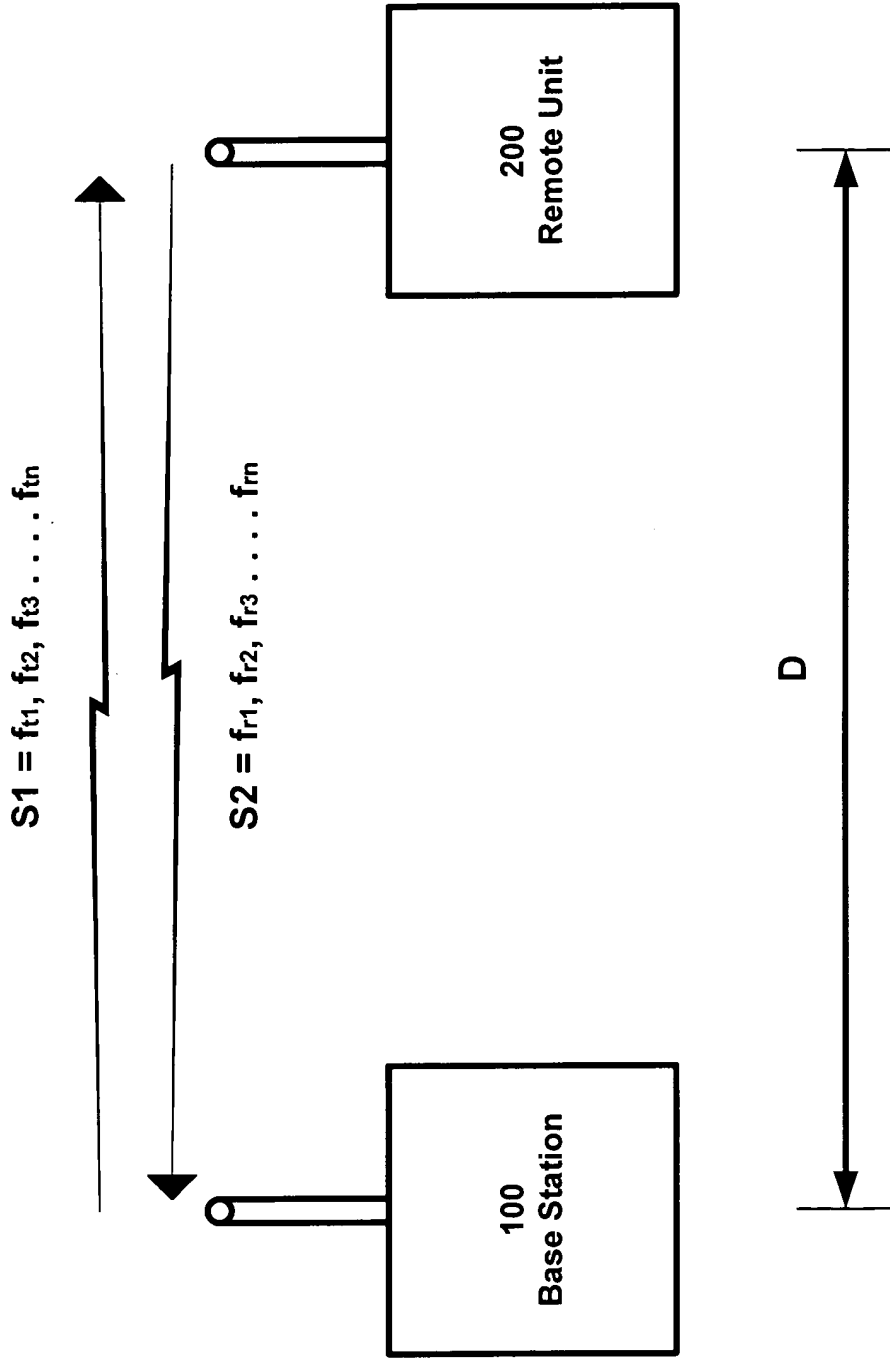


Fig. 2

100

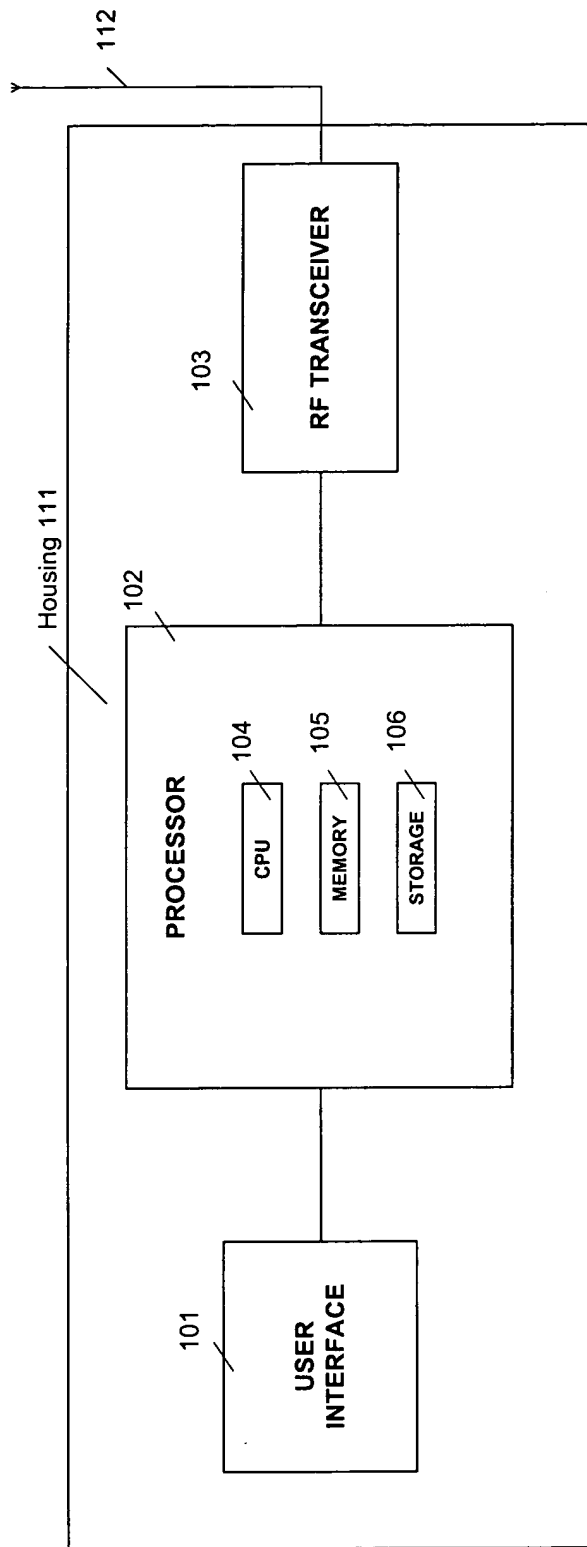


FIG. 3A

100

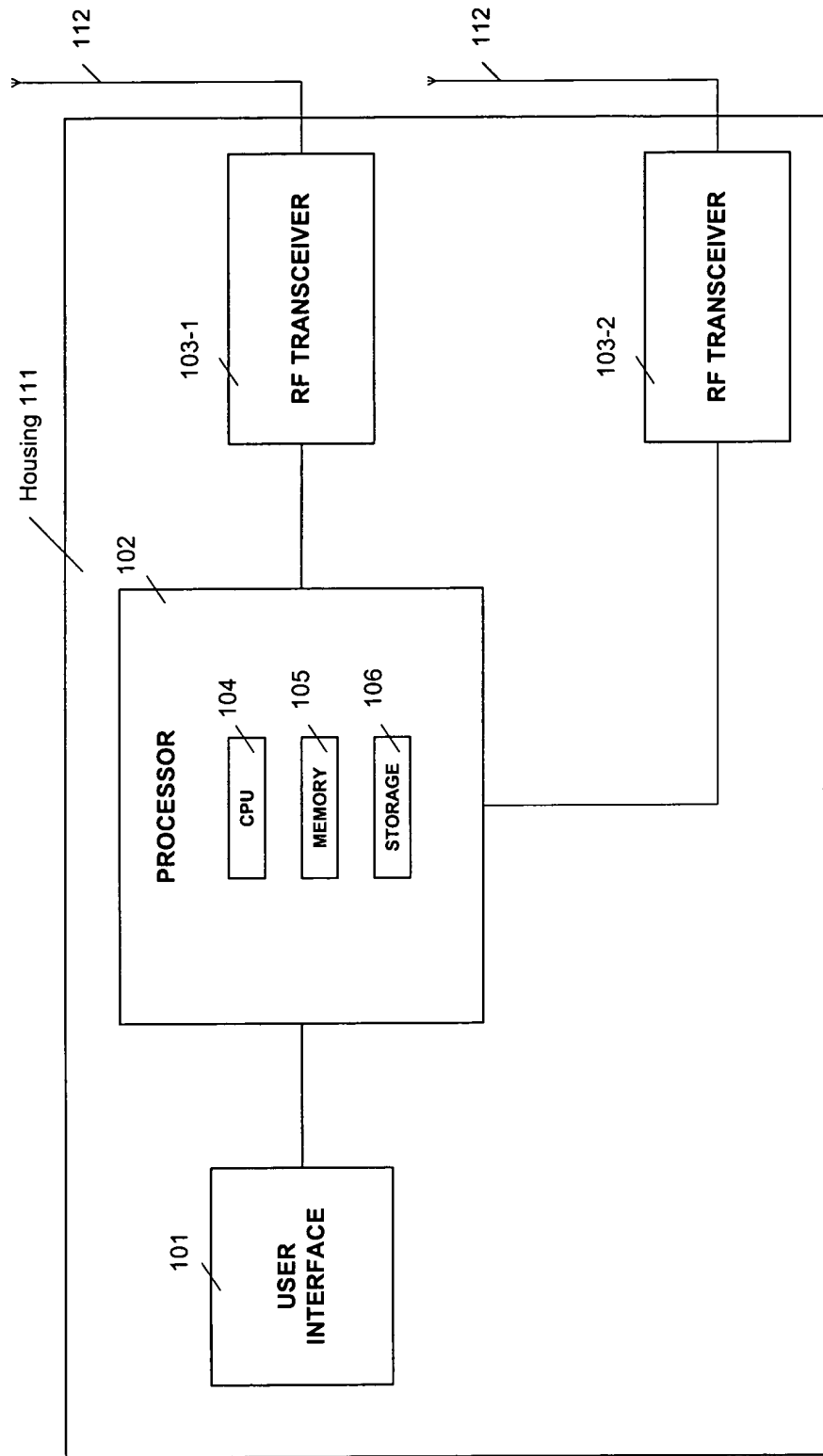


FIG. 3B

FIG. 3C is a block diagram of a system 100.

100

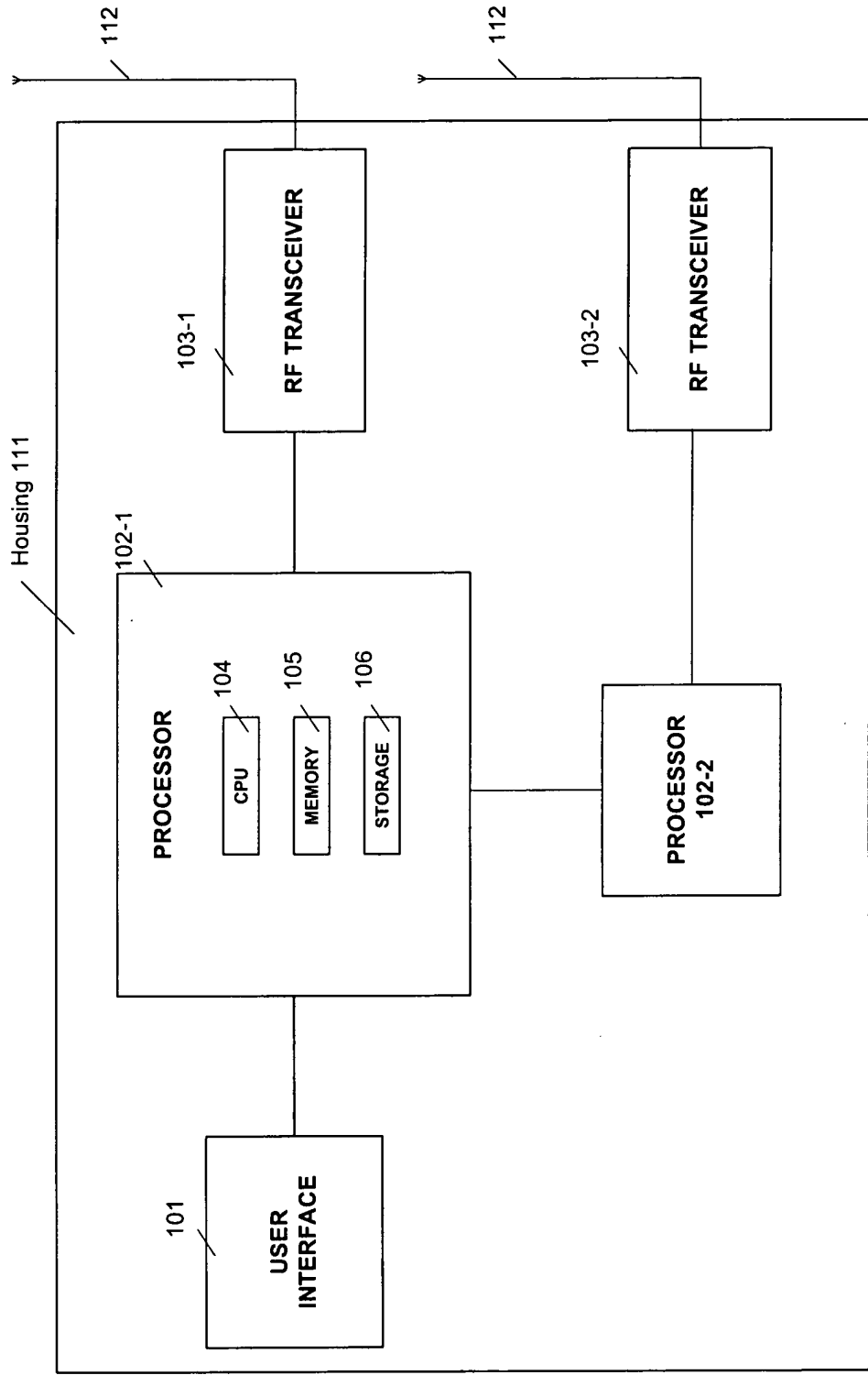


FIG. 3C

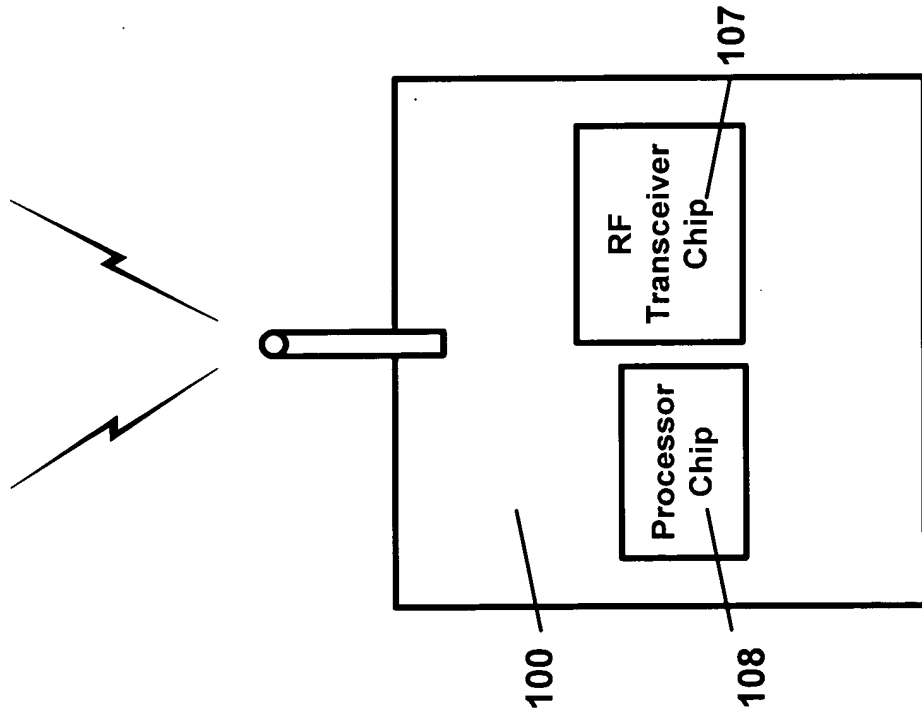


Fig. 4A

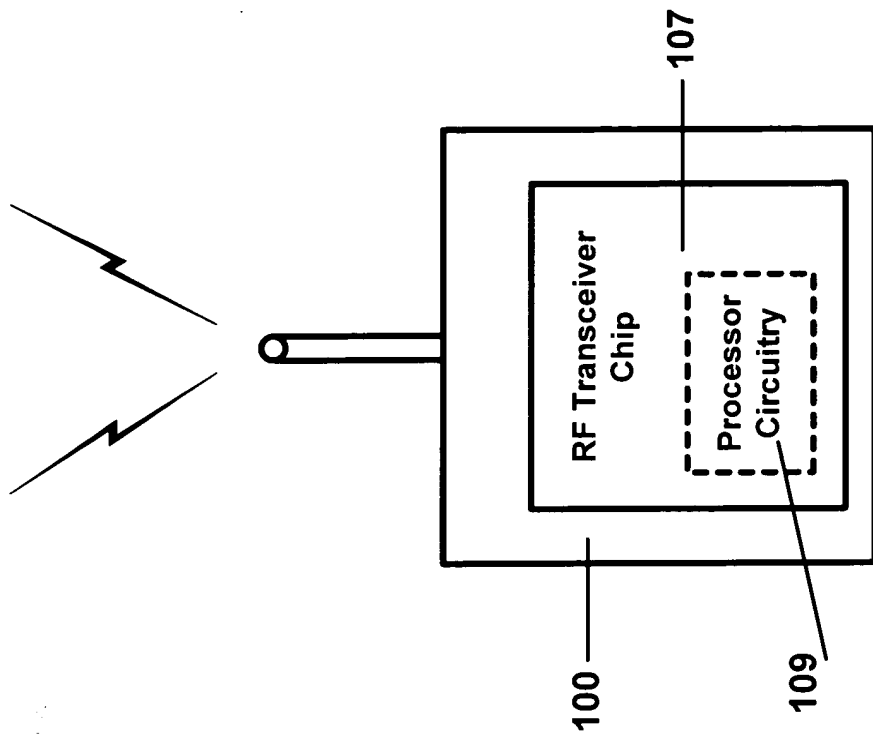


Fig. 4B

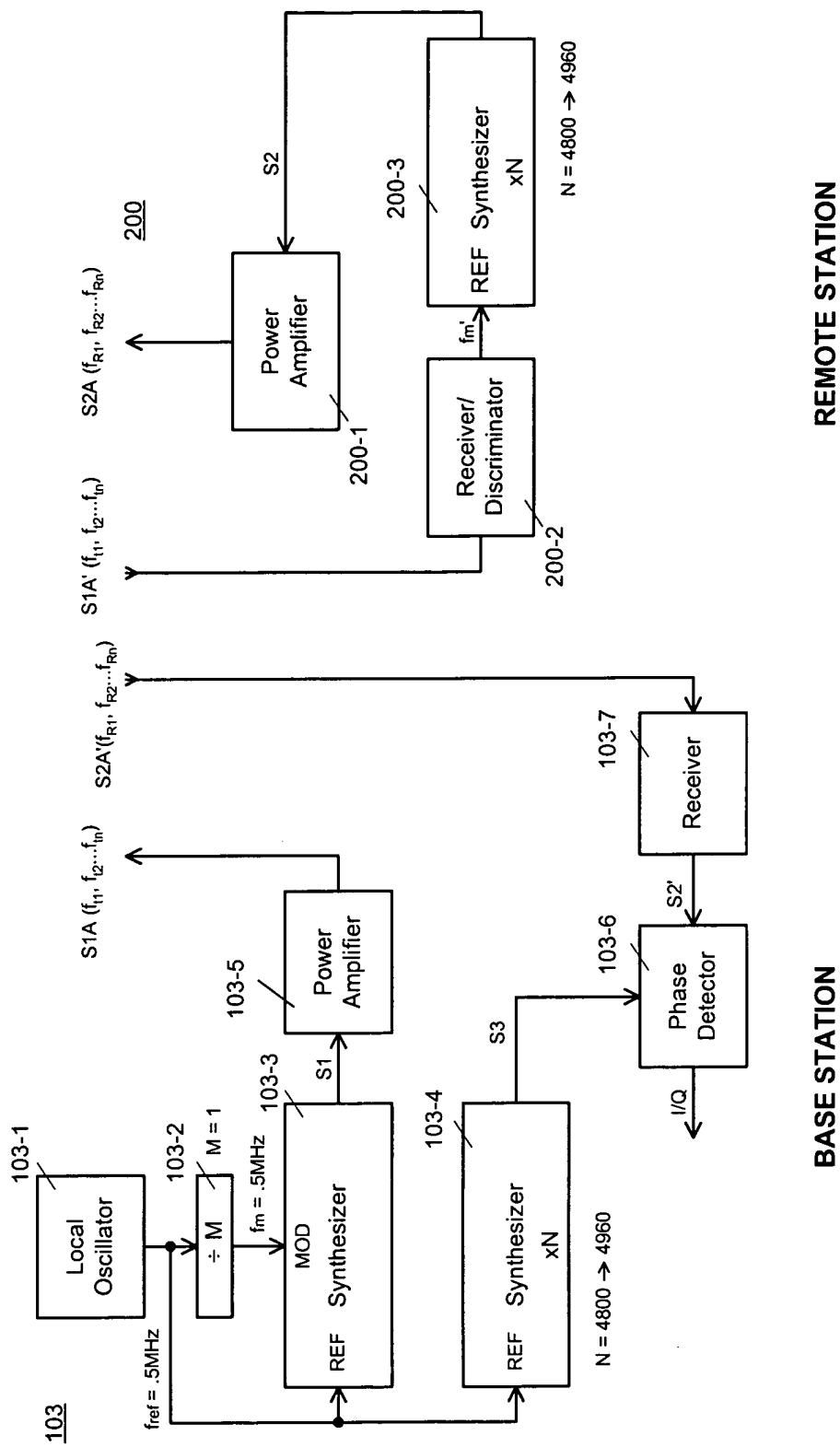


FIG. 5

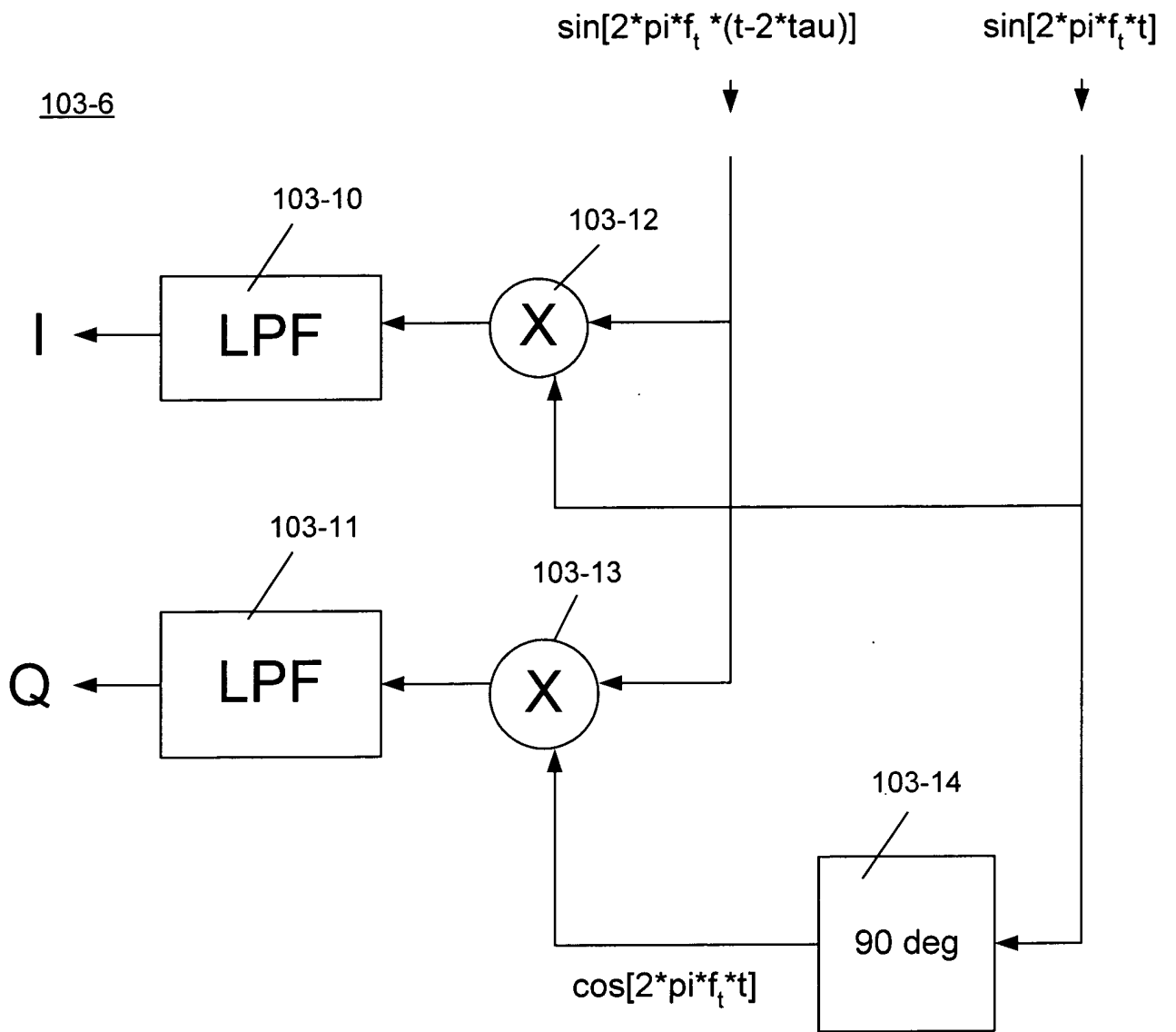
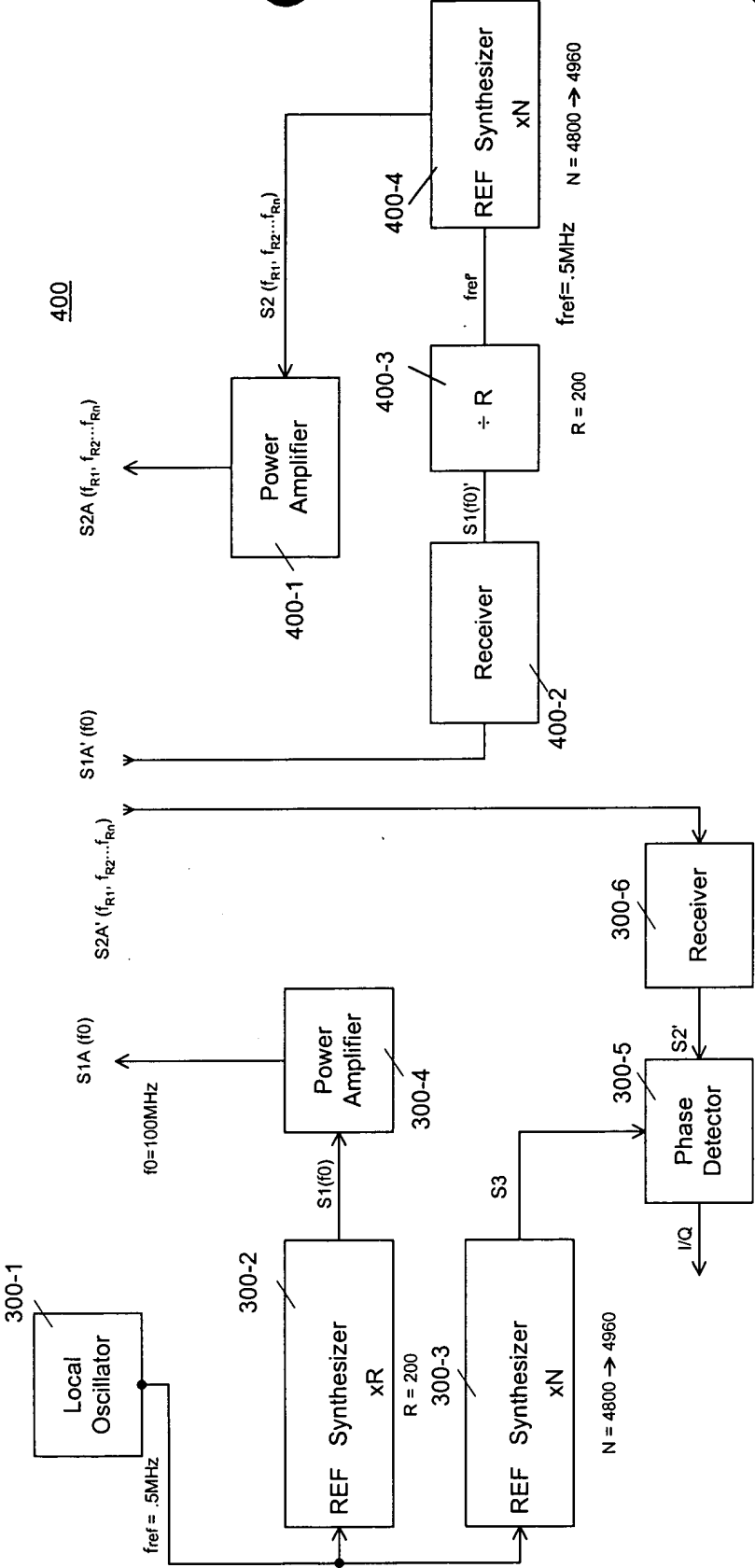


Fig. 6

300

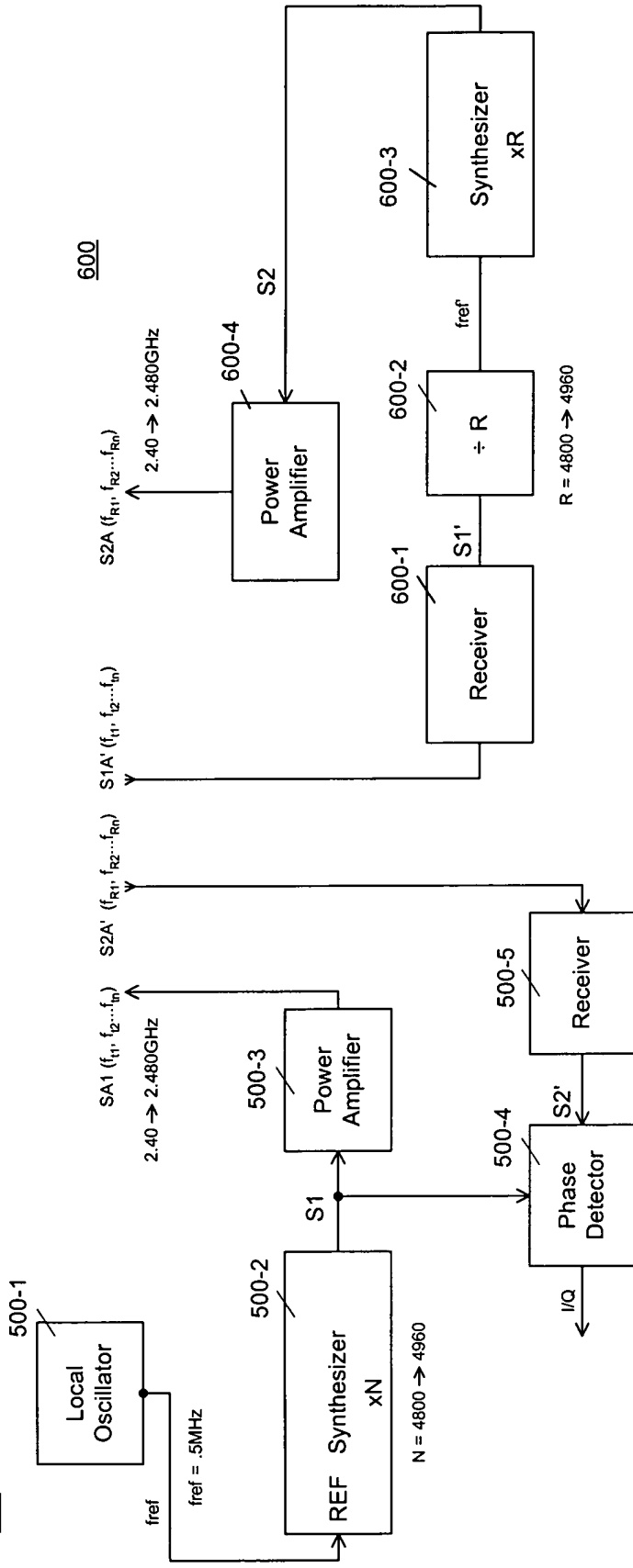


BASE STATION

REMOTE STATION

FIG. 7

500



BASE STATION

FIG. 8

REMOTE STATION

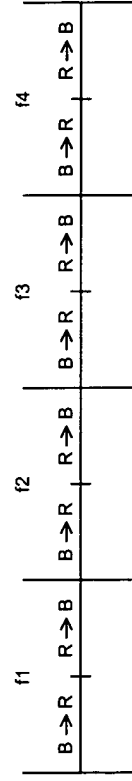
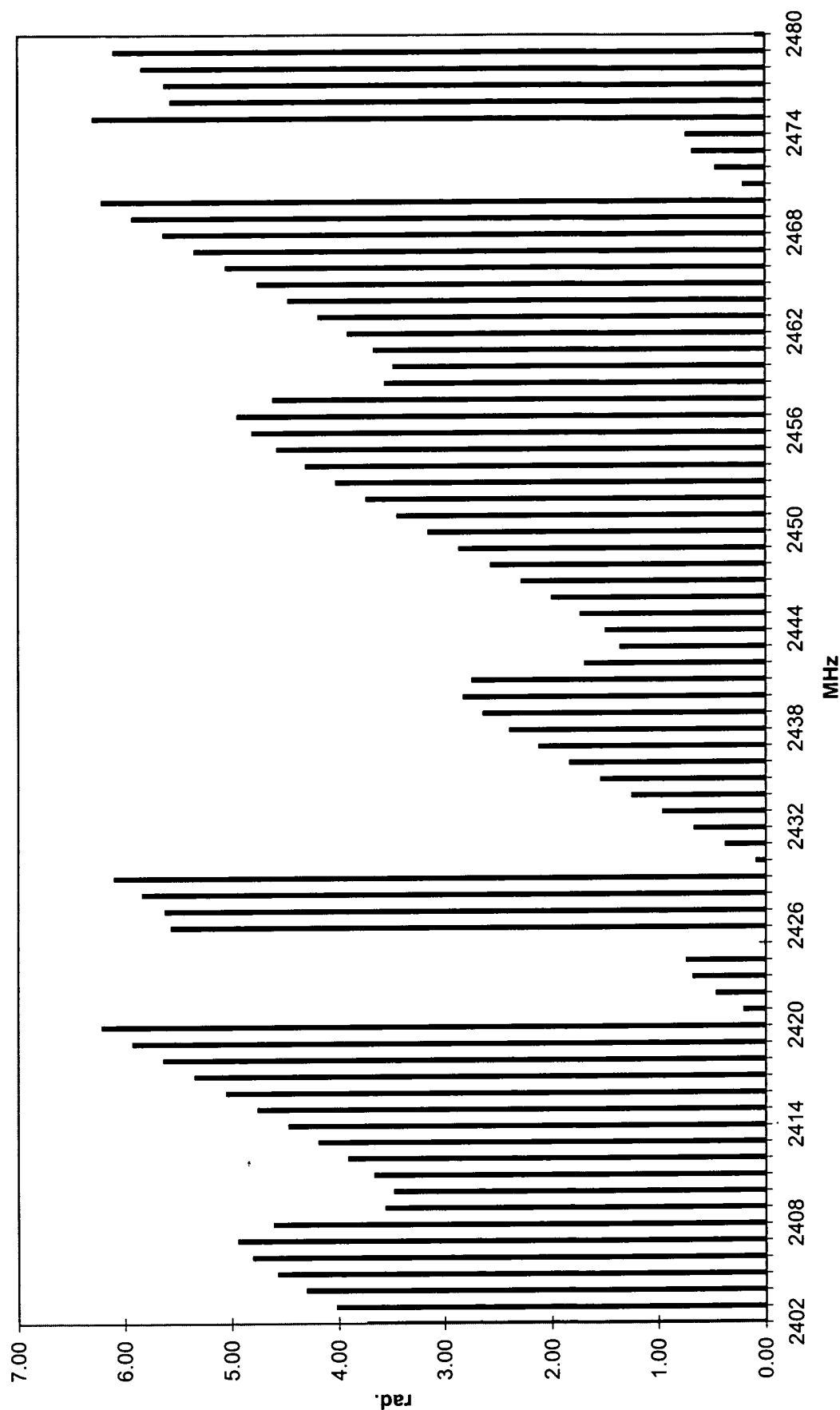


FIG. 9

Figure 10B

Phase shift vs. Frequency

Direct path = 20ns, echo = 80ns.



FFT Result
Direct Path = 20ns, echo = 80ns.

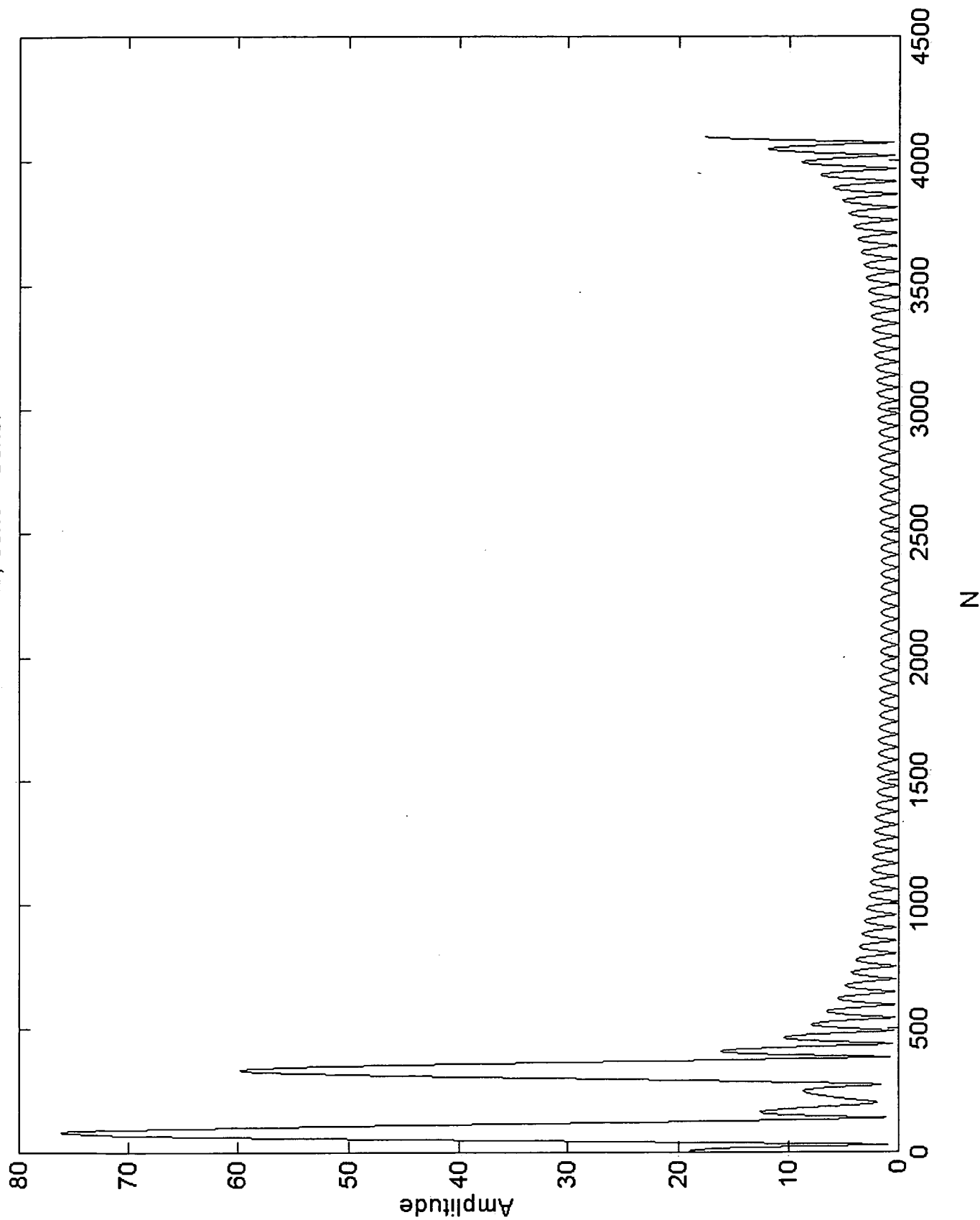


FIGURE 10C

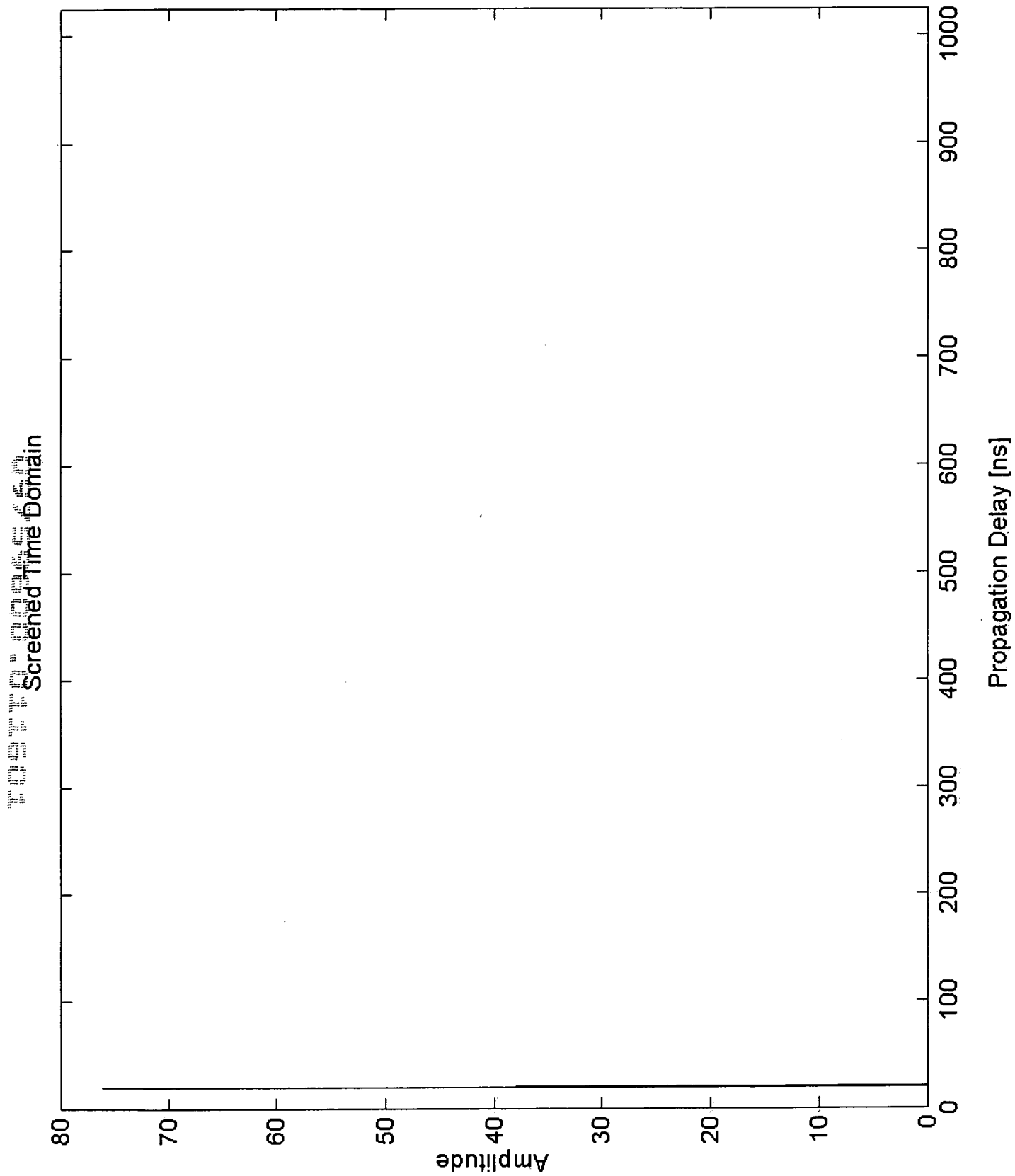


FIGURE 10D

FFT Reconstructed Phase

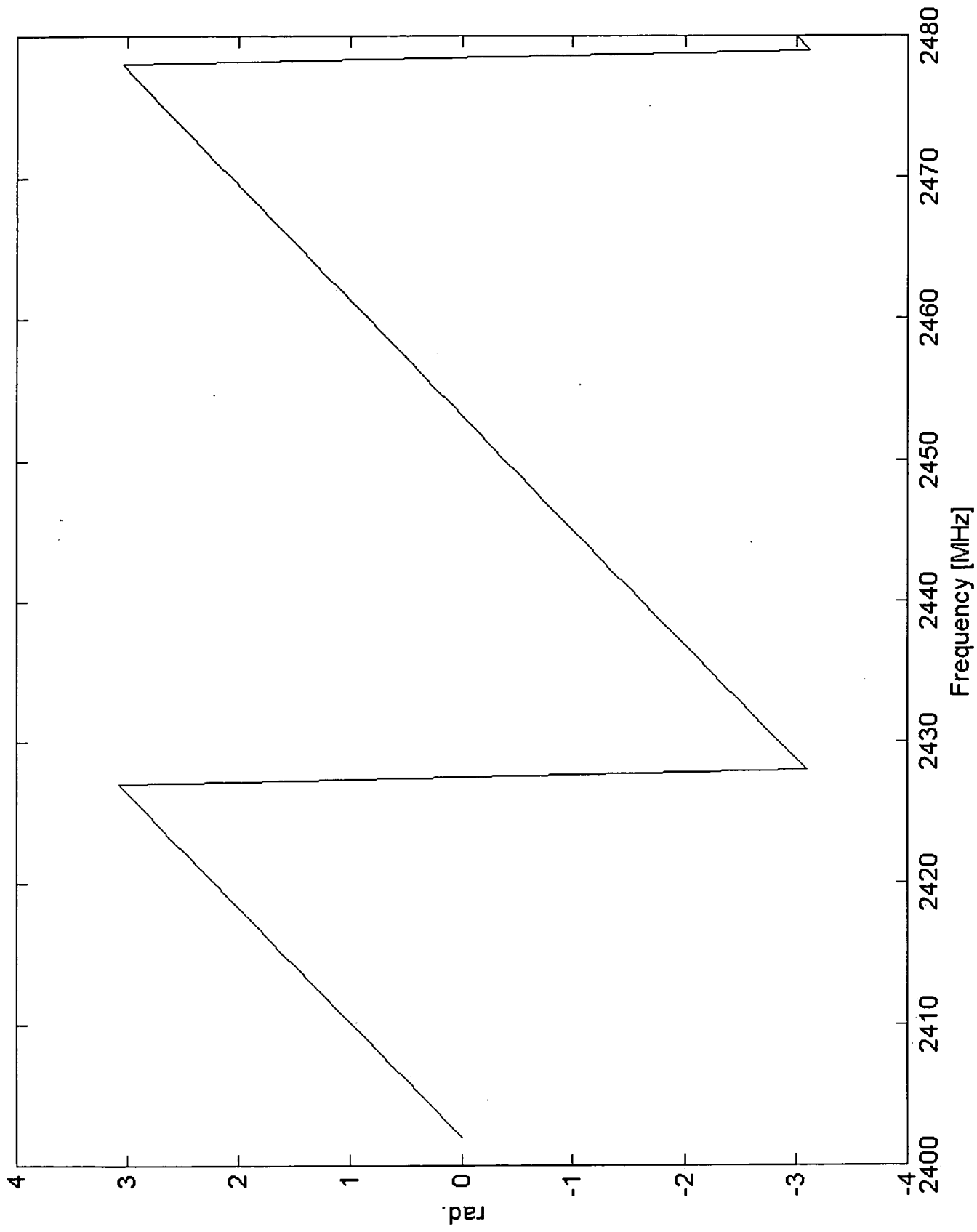
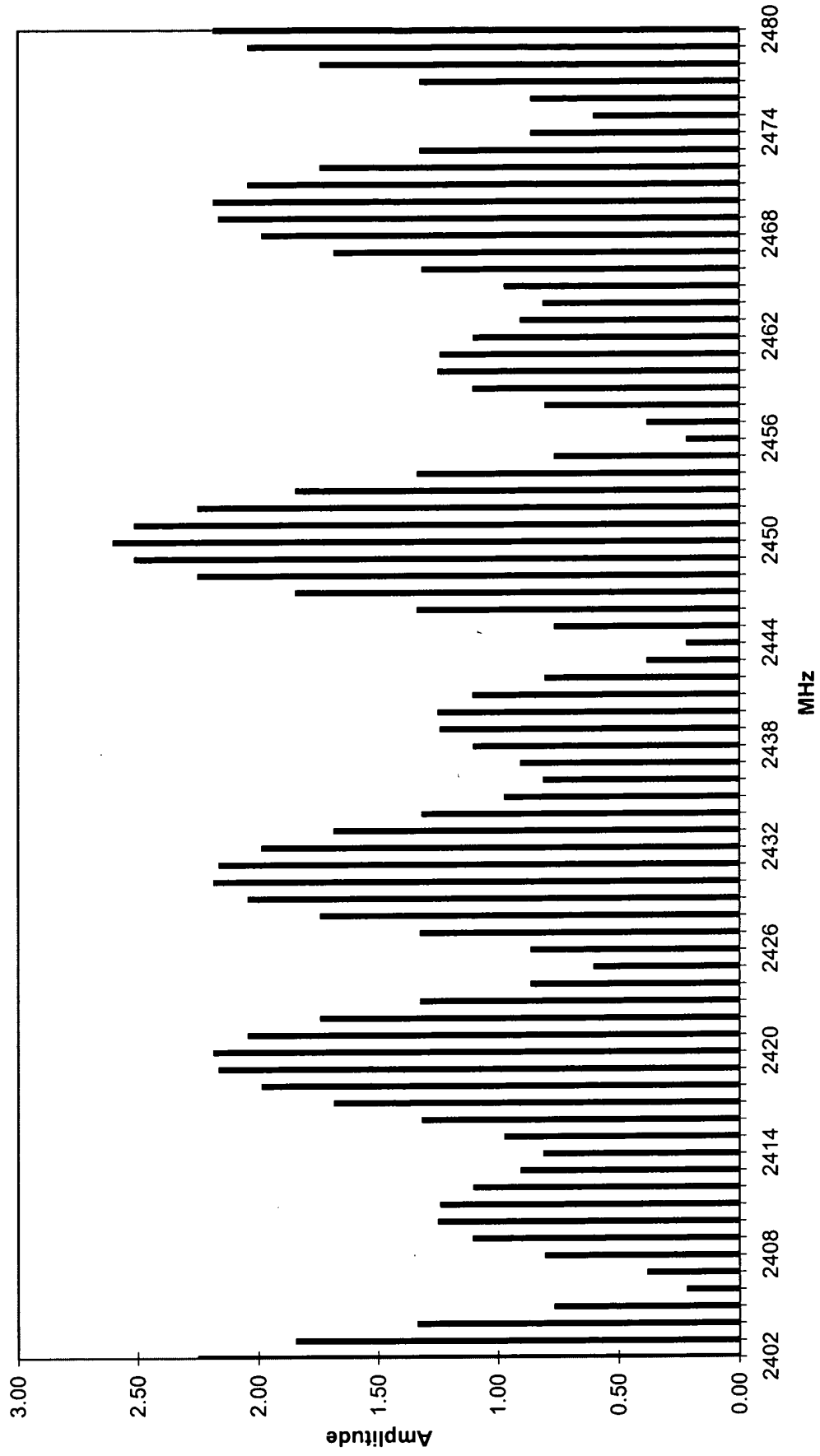


FIGURE 10E

Figure 11A **Amplitude vs. Frequency**
 Direct path = 20ns, echos = 80ns, 120ns.



IFFT Result
Direct Path = 20ns, echos=80ns, 120ns.

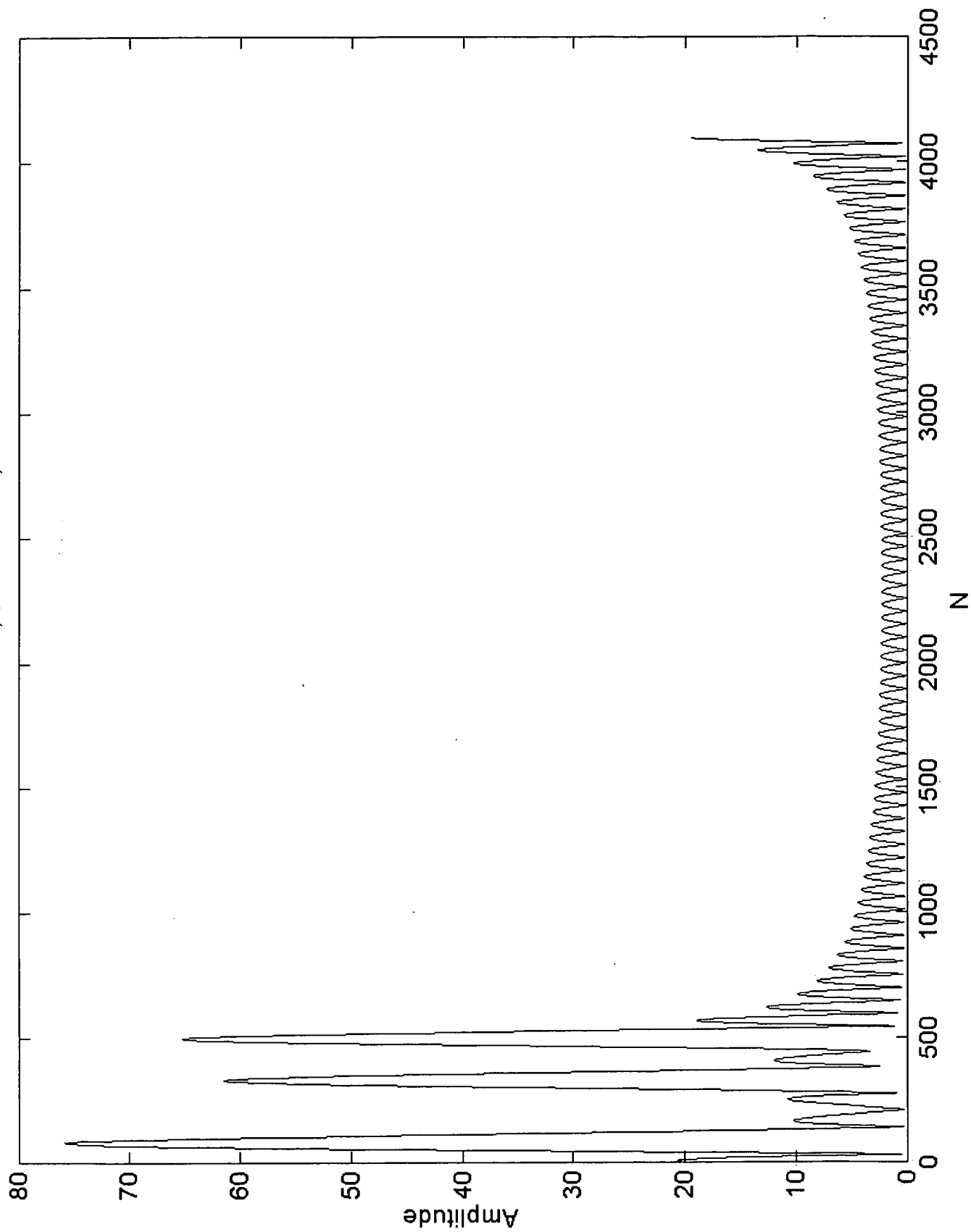


FIGURE 11C

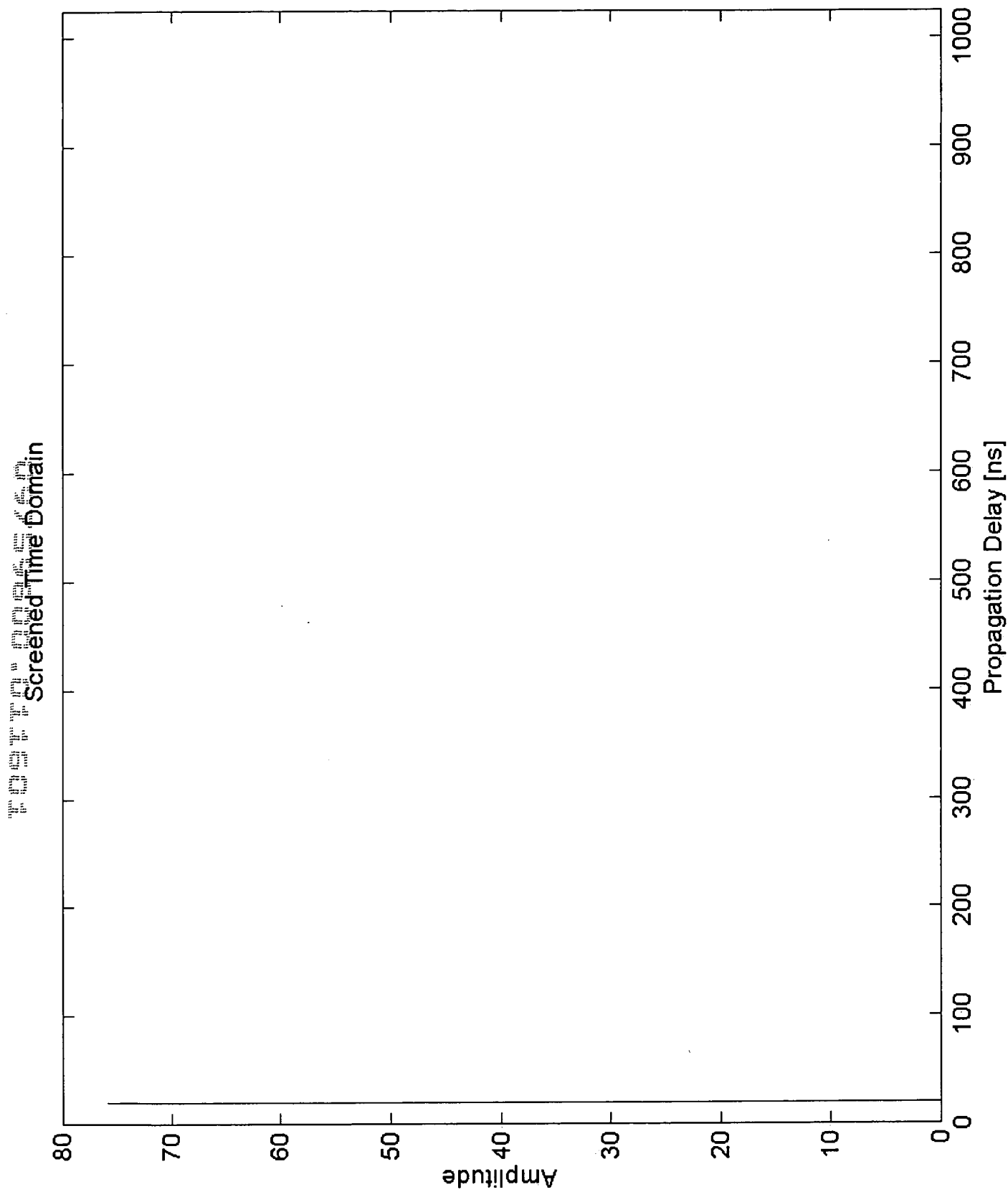


FIGURE 11D

FOE FFT Reconstructed Phase

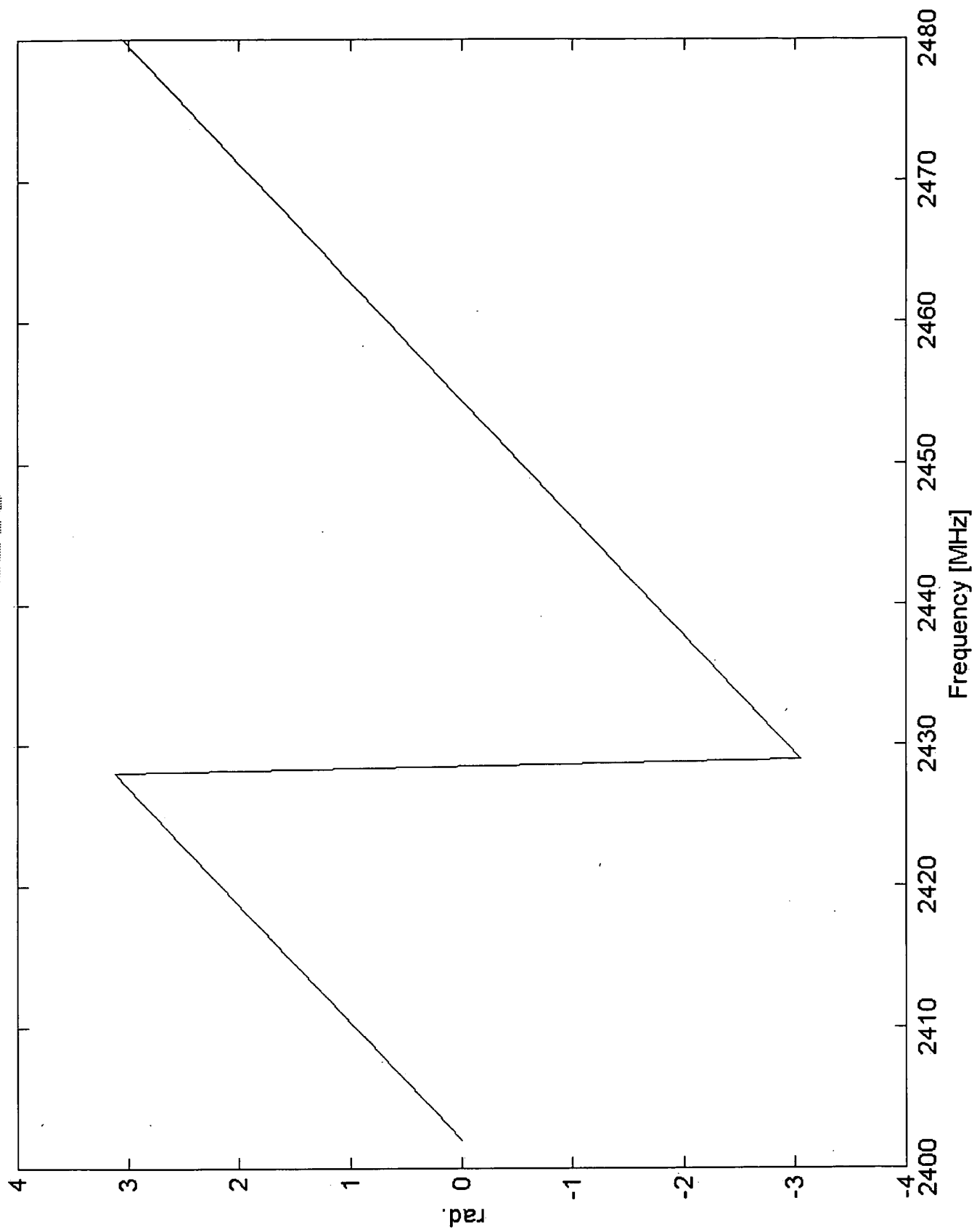


FIGURE 11E

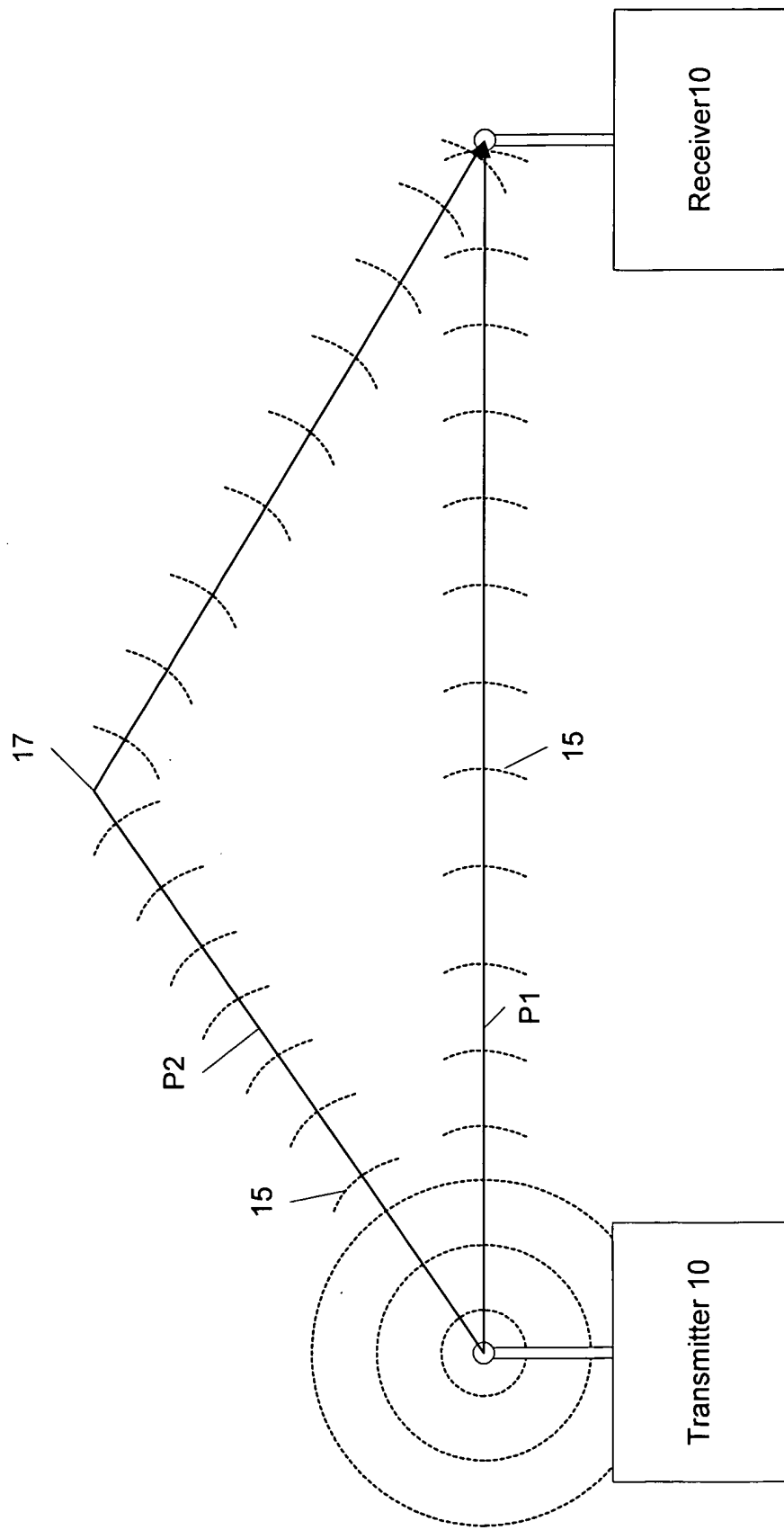


FIGURE 12